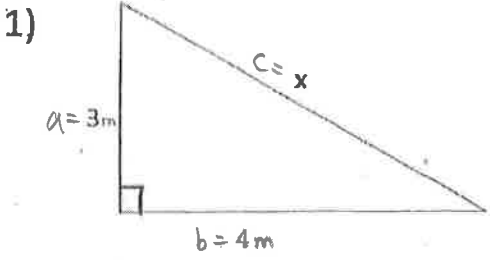


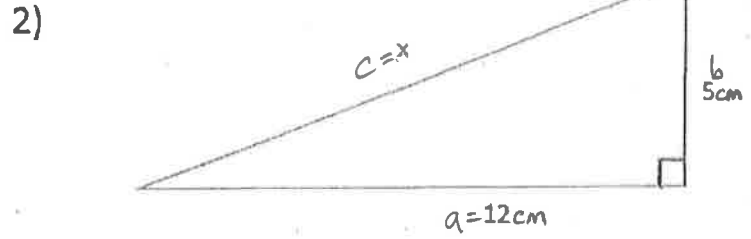
Name: KEY Date: \_\_\_\_\_

Pythagorean Theorem Assignment

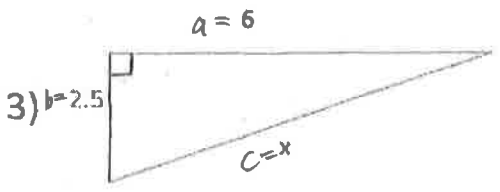
Answer each to the nearest tenth, unless the answer is a whole number



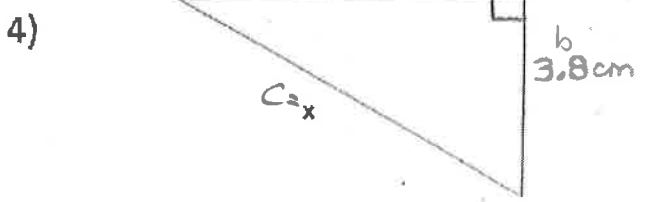
$$\begin{aligned} 3^2 + 4^2 &= x^2 \\ 9 + 16 &= x^2 \\ 25 &= x^2 \\ x &= \sqrt{25} \\ x &= 5m \end{aligned}$$



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 12^2 + 5^2 &= x^2 \\ 144 + 25 &= x^2 \\ 169 &= x^2 \\ x &= \sqrt{169} \\ x &= 13cm \end{aligned}$$

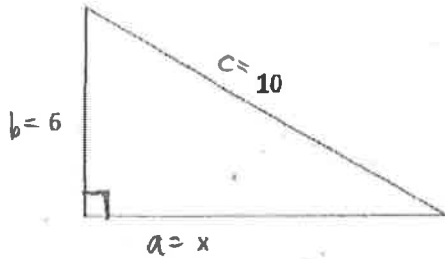


$$\begin{aligned} 6^2 + (2.5)^2 &= x^2 \\ 36 + 6.25 &= x^2 \\ 42.25 &= x^2 \\ x &= \sqrt{42.25} \\ x &= 6.5 \end{aligned}$$



$$\begin{aligned} (5.3)^2 + (3.8)^2 &= x^2 \\ 28.09 + 14.44 &= x^2 \\ 42.53 &= x^2 \\ x &= \sqrt{42.53} \\ x &= 6.5cm \end{aligned}$$

5)



$$x^2 + 6^2 = 10^2$$

$$x^2 + 36 = 100$$

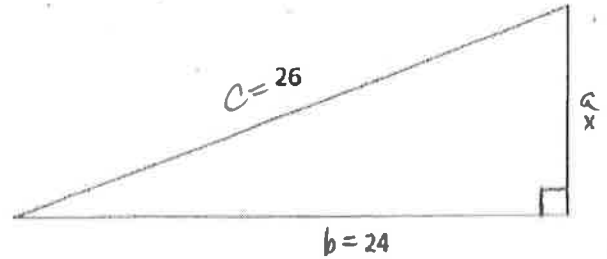
$$\begin{array}{r} -36 \\ \hline -36 \end{array}$$

$$x^2 = 64$$

$$x = \sqrt{64}$$

$$x = 8$$

6)



$$x^2 + 24^2 = 26^2$$

$$x^2 + 576 = 676$$

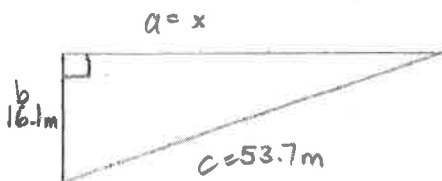
$$\begin{array}{r} -576 \\ \hline -576 \end{array}$$

$$x^2 = 100$$

$$x = \sqrt{100}$$

$$x = 10$$

7)



$$x^2 + (16.1)^2 = (53.7)^2$$

$$x^2 + 259.21 = 2883.69$$

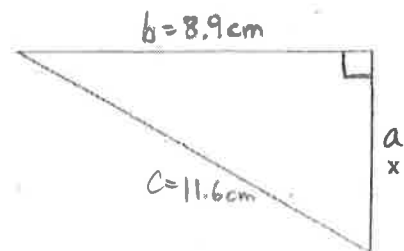
$$\begin{array}{r} -259.21 \\ \hline -259.21 \end{array}$$

$$x^2 = 2624.48$$

$$x = \sqrt{2624.48}$$

$$x = 51.2m$$

8)



$$x^2 + (8.9)^2 = (11.6)^2$$

$$x^2 + 79.21 = 134.56$$

$$\begin{array}{r} -79.21 \\ \hline -79.21 \end{array}$$

$$x^2 = 55.35$$

$$x = \sqrt{55.35}$$

$$x = 7.4cm$$